

AUTHOR: Kaluzhnin, L.A. (Kiev) SOV/42-13-3-34/41

TITLE: On a Galois Relation in the Group Theory (Ob odnom otnoshenii Galua v teorii grupp)

PERIODICAL: Uspekhi matematicheskikh nauk, 1958, Vol 13, Nr 3, pp 244-245 (USSR)

ABSTRACT: The paper contains some further results on the groups of stability and α -central series considered by the author [Ref 1] at the Berlin Congress of Mathematicians in 1953. If G is an elementary abelian group of the type (p, p, \dots, p) , then there hold the following theorems:

1. If the length of a chain of subgroups equals m , then the class of nilpotency of the corresponding group of stability equals $m-1$.
2. Let \mathcal{R} be the group of all automorphisms of the group G . The subgroup \mathcal{U} of \mathcal{R} is a group of stability of a chain in G then and only then if \mathcal{R} is the normal divisor of all Sylow p -subgroups of \mathcal{U} which contain \mathcal{R} , and if the intersection of all these Sylow p -subgroups equals \mathcal{R} .

Card 1/1

KALYAZIN, L. A.

9(5) P.3 PHASE I BOOK EXPLOITATION SOV/3176

Problemy kibernetiki, vyp. 2 (Problems of Cybernetics, No. 2)
Moscow, Fizmatgiz, 1959. 323 p. Errata slip inserted. 18,000
copies printed.

Ed.: A. A. Lyapunov; Compilers-Editors: O. B. Lupanov,
B. Yu. Pil'chak, S. V. Yablonskiy, and Yu. I. Yanov; Eds.:
A. A. Konoplyankin, and M. L. Smolyanskiy; Tech. Ed.:
S. N. Akhlamov.

PURPOSE: The purpose of this collection of articles is to organize scientific papers on cybernetics and to unite the efforts and interests of Soviet scientists working in this field.

COVERAGE: This is the second volume of "Problemy kibernetiki", dealing with problems of biology, mathematics and engineering as they relate to cybernetics. The first volume, which appeared in 1958, considered problems of programming, machine translation and computer design. Future volumes propose to include a still greater number of subjects related to cybernetics. The editors list 5 recent Soviet books (including 2 translations) dealing

Card 1/11

Problems of Cybernetics (Cont.)

SOV/3176

with cybernetics. They thank the following persons for their help in preparing the book for publication: G. V. Vakulovskaya, T. L. Gavrilova, A. A. Muchnik, B. I. Finikov, M. L. Tsetlin and V. S. Shtarkman. References follow each article.

TABLE OF CONTENTS:

From the Editors	5
PART I. GENERAL PROBLEMS	
Yablonskiy, S. V. (Moscow). Basic Concepts of Cybernetics	7
Uspenskiy, V. A. (Moscow). Problem of Developing a Machine Language for an Information Machine	39
The author discusses problems of introducing automation in the process of searching and retrieving of uniform information on a specific subject in any field of human knowledge. Considering the rapid growth of material, existing methods (catalogs, bibliographies, etc.) are insufficient, inaccurate and too slow. In order to create an information machine to	
Card 2/11	

Problems of Cybernetics (Cont.)

SOV/3176

perform these functions, a universal, abstract machine language must be created. The author discusses the ideas of various authors on this subject. There are 14 references: 9 Soviet (5 are translations) and 5 English.

Kaluzhnin, L. A. (Kiyev) Algorithmic Expression of Mathematical Problems

51

The author reports on the work of two seminars in Kiyev: one at the Institute of Mathematics, Academy of Sciences, USSR, under the supervision of V. S. Korolyuk and Ye. L. Rvacheva-Yushchenko on automatic programming ("programs that program"), the other at Kiyev State University, under the supervision of the author on the theory of algorithms and mathematical logic. The aim of both seminars is to find general methods of preparing mathematical and logical problems for processing and solving in modern high-speed computers. There are 7 references: 5 Soviet (1 is a translation) and 2 English.

Mikheyev, V. M. (Moscow). On Sets Containing the Largest

Card 3/11

Problems of Cybernetics (Cont.)

SOV/3176

Number of Mutually Incomparable Boolean Vectors

69

The author discusses the work of N. E. Gilbert, who indicated that a set of mutually incomparable n-dimensional Boolean vectors cannot have more than $C_{n/2}^{[n]}$ elements. The author demonstrates that in the case of n being an odd member, there are exactly two sets of mutually incomparable vectors containing $C_{n/2}^{[n]}$, while such a set is unique in the case of n being an even member. There is 1 English reference.

Val'skiy, R. E. (Leningrad). On the Least Number of Multiplications for Raising to a Given Power

73

The author presents his method of computation. There are no references.

PART II. THEORY OF CONTROL SYSTEMS

Yablonskiy, S. V. (Moscow). On Algorithmic Difficulties Encountered in the Synthesis of Minimum Switching Circuits

75

Card 4/11

Problems of Cybernetics. (Cont.)

SOV/3176

The author attempts to explain algorithmic difficulties arising when solving problems of cybernetics which allow for a trivial solution on the basis of the classical definition of the algorithm. However, such a solution is impracticable because of its clumsiness. The author suggests two variations for the solution of the problem. One consists in renouncing the minimum of circuits. The other consists in renouncing investigation of all the functions of the algebra of logic. There are 27 references: 21 Soviet (3 translations), 5 English and 1 French.

Krichevskiy, R. Ye. (Moscow). On the Realization of Functions by Superposition

123.

The article consists of three parts. In the first part the author presents fundamental definitions: the superposition of elementary objects, realization, and the simplicity index. In the second part, the fundamental result (the value of $L(D_h)$, which is the upper bound of the indexes of the simplest constructions expressing functions of D_h) is obtained if the realizing constructions are superpositions of

Card 5/11

Problems of Cybernetics (Cont.)

SOV/3176

elementary objects. In part 3, a study is made of the consequences of the fundamental theorem pertaining to multi-value logic and the theory of networks. There are 13 references: 6 Soviet, 5 English and 2 German.

Tsetlin, M.L., and L.M. Shekhtman (Moscow). Two-cycle Ferro-transistor Circuits and Algebraic Methods of Their Synthesis

139

The authors aim at developing a regular algebraic method of synthesis of two-cycle ferro-transistor circuits, which recently have found rapidly increasing application in analog and digital computers and automatic control systems. Mathematical analysis is based on algebra of logic. The authors thank the following persons for their help: Professors K.F. Teodorchik and N.Ye. Kobrinskiy, and S.V. Yablonskiy, O.B. Lupanov, N.Ya. Matyukhin and Yu.B. Pil'chak. There are 22 references, 11 Soviet (4 are translations), 10 English and 1 German.

PART III. PROGRAMMING

Glushkov, V.M. (Kiyev). On a Method of Automatizing Programming 181
The author briefly reviews existing methods of automatic pro-

Card 6/11

Problems of Cybernetics (Cont.)

SOV/3176

gramming programs, which attempt to make the process of programming as automatic as that of computing. This can be done by creating a "library" of programming programs and adapting a method of "operational programming." There are no references.

Stogniy, A.A. (Kiyev). Principles of Developing a Specialized Automatic Programming System

185

The method of automatic programming suggested by V.M. Glushkov (see preceding article) is being developed at the Computing Center of the Academy of Sciences, USSR. It consists in the creation of a library of specialized programming programs, and of programs for selecting the method and system of counting by which a given problem is computed. The author presents an example of programming the solution of Cauchy's problem for a system of ordinary differential equations of the first order. There are 5 references, all Soviet.

PART IV: CONTROL SYSTEMS AND COMPUTERS

Myamlin, A.N., and V.K. Smirnov (Moscow). Operational Cathode-ray

Card 7/11

Problems of Cybernetics (Cont.)

SOV/3176

Tube Storage Device

The authors describe the principle of operation of the storage device for the Soviet computer "Strela-1", which consists of cathode-ray tubes of the "Potentsialoskop" type, with a storage capacity of 2048 words of 43 bits. No references are given.

191

Breydo, M.G., V.S. Gurfinkel', A.Ye. Kobrinskiy, A.Ya. Sysin, M.L. Tsetlin, and Ya.S. Yakobson (Moscow). On the Bioelectric System of Control

203

The article deals with the utilization of biological myoelectric currents in the operation of technical devices. It also describes the principles of operation and design of a model of a servo-drive built for this purpose. There are 12 references. 5 Soviet (1 translation), 2 German and 5 English.

PART V. CONTROL PROCESSES IN LIVING ORGANISMS

Timofeyev-Resovskiy, N.V. (Sverdlovsk), and R.R. Rompe (Berlin). On Statisticity and Amplifier Principle in Biology.

213

The article concerns problems of circulation of hereditary information from generation to generation and the physical process

Card 8/11

Problems of Cybernetics (Cont.)

SOV/3176

of its biological storage in living organisms. The authors summarize investigations in that field. There are 52 references, 16 Soviet (5 translations), 18 English, 14 German, and 4 French.

Krushinskiy, L.V. (Moscow). Investigation of Extrapolative Reflexes in Animals

229

The article deals with the physiology of the activity of the nervous system in animals. The article, according to the editor, is of great interest for the study of cybernetics since it concerns relations between biology, engineering and mathematics in the investigation of control processes occurring in living organisms. There are 11 references: 9 Soviet (2 translations), and 2 English.

PART VI. PROBLEMS OF MATHEMATICAL LINGUISTICS

Kulagina, O.S., and G.V. Vakulovskaya (Moscow). Experimental Translations From French Into Russian on the "Strela" Computer
The programming algorithms for the machine translation of mathematical texts from French into Russian were developed by

283

Card 9/11

Problems of Cybernetics (Cont.)

SOV/3176

O.S. Kulagina and I.A. Mel'chuk. These algorithms assume the existence of a special vocabulary which contains not words but stems. The authors give examples of translations obtained and methods used in eliminating errors. No references are given.

Kulagina, O.S. (Moscow). Operational Description of Translation Algorithms and Automatizing the Process of Their Programming 289
Mathematicians of the Soviet Union have developed a programming technique of operational programming based on an external notation that is written linearly across the page. This operational programming was tested on translations from French into Russian. The author describes the class of logical operators used. The sequence of operators will indicate their sequence of performance. The following types of operators are used: condition, resulting and neutral (finish, halt, iteration, etc.). The author explains the method of compiling programs using these operators. No references are given.

PART VII. CHRONICLE

Leningrad All-University Seminar on Machine Translation 303
A research group of MIAN, under the supervision of Professor
Card 10/11

Problems of Cybernetics (Cont.)

SOV/3176

A.A. Lyapunov, presented six reports on machine translation at an all-university seminar, which lasted from November 28 to December 3, 1957. The following reports were discussed: A.A. Lyapunov, "General Problems of Machine Translation"; O.S. Kulagina, "Abstract Grammar" and "Machine Translation from French Into Russian"; I.A. Mel'chuk (IYaAN), "Machine Translation From Hungarian Into Russian"; T.N. Moloshnaya, "Structural Analysis of the English Language" and "Examination of Homonyms In Translations From English Into Russian".

All-Union Conference on Machine Translation

The conference took place May 15-21, 1958, at the Moscow State Pedagogical Institute of Foreign Languages; 79 institutions participated. A list of participants and of some 75 reports discussed are included in the article.

305

II International Congress on Cybernetics

A report from this Congress which took place September 3-10, 1958, in Namur, Belgium, is presented by the Soviet participants, I.Ya. Aksenov, Yu.Ya. Bazilevskiy and R.R. Vasil'yev.

311

AVAILABLE: Library of Congress

Card 11/11

JP/jb
4-29-60

16(1)

AUTHOR: Kaluzhnin, L.A. (Kiev) SOV/41-11-1-4/12

TITLE: On a Galois-Relation in the Group Theory

PERIODICAL: Ukrainskiy matematicheskiy zhurnal, 1959, Vol 11, Nr 1,
pp 38-51 (USSR)

ABSTRACT: Let

$$(1) \quad G = G_0 \supset G_1 \supset \dots \supset G_{m-1} \supset G_m = \{1(G)\}$$

be a series of subgroups of the Abelian group G . The totality of the automorphisms of G which in all G_{i-1}/G_i induce the identical automorphism, is called stability group of the series (1). To every group of automorphisms α of G it is adjoined: 1) the upper central series of α with the claim

$Z_0(G; \alpha) = 1(G); a \in Z_i(G; \alpha) \iff a\alpha = a(z_{i-1}(G; \alpha)), \alpha \in \alpha;$
2) the lower central series of α : $K_0(G; \alpha) = G$ and $K_i(G; \alpha)$ is the subgroup of G generated by all elements of the form $a\alpha \cdot a^{-1}$ for all $a \in \alpha$ and all $a \in K_{i-1}(G; \alpha)$.

Let α be the stability group of (1) and let

$$(2) \quad \bar{G}_0 = 1(G) \subseteq \bar{G}_1 \subseteq \dots \subseteq \bar{G}_{m-1} \subseteq \bar{G}_m = G$$

Card 1/2

• On a Galois-Relation in the Group Theory

SOV/41-11-1-4/12

$$(3) \underline{G}_0 = G \supseteq \underline{G}_1 \supseteq \dots \supseteq \underline{G}_{m-1} \supseteq \underline{G}_m = 1(G)$$

be the upper and lower central series of α . (1) is called closed with respect to above if $\underline{G}_i = \bar{G}_{m-i}$ for all i, it is called closed with respect to below if $\underline{G}_i = G_i$. (1) is called closed if it is closed with respect to above and below.

Theorem: If G is a finite p-group and Φ is a p-group of automorphisms of G, then G is Φ -nilpotent.

Theorem: Every series of subgroups of G is closed.

Theorem: A group of automorphisms of G is a stability group exactly then if 1. it is a p-group, and 2. it is a normal divisor in every p-Sylow group in which it is contained, and 3. it coincides with the intersection of p-Sylow groups containing it. There are 5 references, 1 of which is Soviet, 3 American, and 1 French.

SUBMITTED: April 21, 1958

Card 2/2

KALUZHIN, L.A.; STOGNIY, A.A.

Kiev section of cybernetics. Probl. kib. no.6:300-302 '61.
(MIRA 15:1)
(Kiev--Cybernetics)

KALUZHININ, Lev Arkad'yevich, doktor fiziko-matematicheskikh nauk; GLUSHKOV, V.M., otv. red.; POKHODZILO, P.V., red.; MATVIYCHUK, A.A., tekhn. red.

[What is mathematical logic] Chto takoe matematicheskaya logika; Kiev, 1961. 39 p. (Obshchestvo po rasprostraneniiu politicheskikh i nauchnykh znanii Ukrainskoi SSR. Ser.6, no.12) (MIRA 14:11)
(Logic, Symbolic and mathematical)

S/044/62/000/004/098/099
C111/C222

AUTHORS: Kulegina, O.S., Kaluzhnin, L.A., Ivanov, V.V.

TITLE: On the cultural significance of mechanical translation

PERIODICAL: Referativnyy zhurnal, Matematika, no. 4, 1962, 59-60,
abstract 4V402. ("Vestn. istorii mirovoy kul'tury", 1961,
No. 3, 22-38)

TEXT: A short survey of the stages of scientific and cultural development of mankind is given from the standpoint of the means of communication and information storage. Emphasized is the significance of fast working computers in breaking down the language barriers which are considerable obstacles to scientific and technical development. The structure of an electronic computer and its application to mechanical translations from French into Russian are described. The influence of mechanical translation on linguistics is mentioned. It is pointed out that the problem of meaning is the basic problem, because the meaning does not change in translating from one language into the other.

[Abstracter's note: Complete translation.]

Card 1/1

KALUZHININ, L. A., KULAGINA, O. S., and TSEYTIN, G. S.

"Mathematic Problematics of Linguistics and Machine Translation"

presented at the All-Union Conference on Computational Mathematics and
Computational Techniques, Moscow, 16-28 November 1961

So: Problemy kibernetiki, Issue 5, 1961, pp 289-294

GLUSHKOV, Viktor Mikhaylovich, akademik; YUSHCHENKO, Yekaterina Logvinovna, kand. fiz.-mat. nauk; KALUZHIN, L.A., doktor fiz.-mat. nauk, prof., retsenzent; NEMCHUNOVA, O.A., red. izd-va; SHAFETA, S.M., tekhn. red.

["Kiev" electronic computer] Vychislitel'naia mashina "Kiev"; matematicheskoe opisanie. Kiev, Gostekhizdat USSR, 1962.
183 p.

(Electronic computers)
(Programming (Electronic computers))

(MIRA 16:6)

KALUZHININ, L.A.

Causality in the theory of abstract automata. Dop. AN URSR no.1:
3-6 '65. (MIRA 18:2)

1. Kiyevskiy gosudarstvennyy universitet. Predstavлено akademikom
V.M. Glushkovym [Glushkov, V.M.].

KALUZHIN, I. A.

Gruys. G. Papy. Reviewed by I. A. Kaluzhin. Usp. mat. nauk
19 no.4:240-241 '64. (MIRA 17:10)

SHTOKALO, I.Z.; KALINICHIN, L.A.; BLAGOVESCHENSKIY, Yu.V.; BOGOLIUBOV, A.N.

Vladimir Petrovich Vel'stin, 1885-; on his 80th birthday.

Ukt. mat. zhur. 17 no.5:137-138 '65.

(MIRA 18:12)

KALUZHNYI, G. D., BILEV, B. I.

Agricultural Machinery

Hanging attachment for tractor KhT3-7. Part 2: Plow PN-30 and beet harvester SNK-2,
Sel'khozmashina, No. 1, 1952.

Monthly List of Russian Accessions, Library of Congress, April 1952. UNCLASSIFIED.

KALUZINYY, I.T.

Radioactive iodine in the diagnosis and treatment of thyrotoxi-
cosis patients. Sov. zdrav. Kir. no.4/5:56-60 Jl-0'63
(MIRA 17:1)

1. Iz kafedry gospital'noy terapii (zav. - prof. V.V. Zuyev)
[deceased] i kafedry propedevticheskoy terapii (zav. - dotsent
I.T.Kalyuznyy) Kirgizskogo gosudarstvennogo meditsinskogo in-
stituta.

GRES'-EDEL'MAN, B.Ye.; ROMASHKO, Yu.V.; PEDENKO, A.I.; KALUZHSKAYA, B.A.
ZUNDER, F.M.; KRAKOVSKAYA, B.S.; GOL'DENBERG, R.A.

Study of the causes of decreased immunity to diphtheria in
vaccinated subjects. Vop. okh. mat. i det. 6 no. 2:18-21
(MIRA 14:2)
F '61.

1. Iz Khar'kovskogo nauchno-issledovatel'skogo instituta vaktsin
i syvorotok imeni I.I. Mechnikova (dir. - doktor biologicheskikh
nauk G.P. Cherkas).
(DIPHTHERIA) (IMMUNITY)

ZUBAREV, S.V.; ZAKHARENKOVA, V.I.; SOBOLEV, A.S.; KALUZHSKAYA, I.N.

Kinetics of phenol chlorination. Khim. prom. 41 no.8; 569-
570 Ag '65. (MIRA 18:9)

MAN'KINA, N.N., kand. tekhn. nauk; MEYER, I.A., inzh.;
KALUZHSKAYA, T.A., inzh.

Use of hydrazine for preventing incrustation formation. Elek.
sta. 35 no. 5:14-17 My '64. (MIRA 17:8)

KALUZHSKAYA, T. M.

USSR/Engineering
Water Systems
Turbogenerators

Oct 48

"Utilization of Blowoff Water in Stabilizing the
Carbonate Content in a Closed Water Supply Sys-
tem," T. M. Kaluzhskaya, Engr, 3/4 p

"Elek Stants" Vol XIX, No 10

Describes treatment of circulating water to pre-
vent scaling of turbogenerator condenser tubes.

an/bmso

KALUZHSKAYA, T.M.

AID P - 3761

Subject : USSR/Electricity

Card 1/2 Pub. 26 - 3/29

Authors : Volkov, V. M., T. M. Kaluzhskaya, and B. I. Klyachko,
Engs.

Title : Surface corrosion of screening pipes of high-pressure
steam boilers

Periodical : Elek. sta. , 10, 7-9, 0 1955

Abstract : The authors describe damages which have occurred since
1953 at a steam electric power station equipped with
boilers of the TP-230 and KOIII types. The editors
note that similar damages to screening pipes have
occurred in several steam electric power stations. The
article gives details of the damages and the conditions
in which they occurred. They also give possible causes
of the corrosion occurring and describe preventive
measures applied. One photograph, 2 tables.

AID P - 3761

Elek. sta., 10, 7-9, 0 1955

Card 2/2 Pub. 26 - 3/29

Institution : None

Submitted : No date

VOLKOV, V.M., inzh.; KALUZHSKAYA, T.M., inzh.; KLYACHKO, B.I., kand.tekhn.
nauk

External corrosion of waterwalls and its prevention in high-pressure
boilers. Elek.sta. 29 no.5:27-30 My '58. (MIRA 12:3)
(Boilers--Equipment and supplies)
(Corrosion and anticorrosives)

KALUZHSKAYA, T.M., inzh.; MEYYER, L.A., inzh.; MAN'KINA, N.N., kand.
tekhn.nauk

Entrance of ferric oxide into boilers and methods for preventing
incrusterations. Elek. sta. 31 no.9:6-10 S '60. (MIRA 14:10)
(Boilers--Incrustations)
(Feed water purification)

MAN'KINA, N.N., kand.tekhn.nauk; MEYYER, L.A., inzh.; KALUZHSKAYA, T.M.;
inzh.

Industrial checking of the use of hydrazine to control the
formation of ferric oxide. Teploenergetika 8 no.6:62-64 Je '61.
(MIRA 14:10)

1. Vsesoyuznyy teplotekhnicheskiy institut i Gor'kovskoye
energoupravleniya.
(Hydrazine) (Feed-water prufication)

SHAYDULLIN, R.M.; KALUZHNSKIKH, A.L.

The use of wooden bearings on mills. TSvet. met. 37 no.10:76-79 0 '64.
(MIRA 18:7)

KALININ, M.A., uchitel'; KRASIKOV, I.N., uchitel'; PETROV, P.F.,
zasluzhennyj uchitel' shkoly RSFSR; PODOSINKIN, B.N., uchitel';
KALUZHHSKIKH, N.I., uchitel'; YEGYAZARYAN, D.; OKHAPKIN, F.P.
(Kirov); GUTENEV, P.A. (s.Mikhaylovskoye Stavropol'skogo kraja)

Editor's mail. Geog. v shkole 25 no.1:58-61 Ja-F '62. (MIRA 15:1)

1. 1-ya shkola g. Boksitogorska (for Kalinin). 2. Sydinskaya
semiletnaya shkola Krasnoyarskogo kraja (for Krasikov). 3.
Shkola imeni M.I. Kalinina, g. Buguruslan (for Petrov). 4. 5-ya
shkola g. Ishim'ya (for Podosinkin). 5. Nizhne-Smorodinskaya
shkola Kurskoy oblasti (for Kaluzhskikh). 6. Aygestanskaya
shkola Armyanskoy SSR (for Yegyazaryan).

(Geography--Study and teaching)

KALUZHSKIKH, V.N. (Kuybyshev, Nekrasovskaya ul., d.83, kv.1)

Bronchotomy in a 3-year-old child for removing a foreign body.
Vest.khir. 79 no.9:133-134 S '57. (MIRA 10:11)

1. Iz fakul'tetskoy kliniki (zav. - prof. S.L.Libov) Kuybyshevskogo
meditsinskogo instituta.
(BROWCHI, for body
surg. in child)

KALUZHNSKIKH, V. N., Cand of Med Sci -- (Diss) "Data Toward the Painless
Surgery for the Treatment of Thyreotoxicosis," Kuybyshev, 1959, 19 pp
(Kuybyshev Medical Institute) (KL, 1-60, 125)

KALUZHNSKIKH, V.N.

Surgery and methods of anesthesia in thyrotoxicosis. Kaz. med. zhur.
no.6:20-22 N-D '60. (MIRA 13:12)

1. Fakul'tetskaya khirurgicheskaya klinika (zav.-prof. S.L. Libov)
Kuybyshevskogo meditsinskogo instituta.
(THYROID GLAND—SURGERY)

LIBOV, S.L., prof.; KALUZHNSKIKH, V.N., kand.med.nauk

Use of intubation anesthesia in the surgical clinic. Sov. med.
25 no.11:56-61 N '61. (MIRA 15:5)

I. Iz kliniki fakul'tetskoy khirurgii (zav. - prof. S.L.Libov)
Kuybyashevskogo meditsinskogo instituta (dir. - kand.med.nauk D.A.
Veronov).

(INTRATRACHEAL ANESTHESIA)

KALUZHSKIY, V.N.

Materials on anesthesiology in the surgical treatment of tyrotoxicosis. Trudy Kuib.med.inst. 11:228-234 '60. (MIRA 15:8)

1. Iz fakul'tetskoy khirurgicheskoy kliniki (zav. klinikoy prof. S.L.Libov) Kuybyshevskogo meditsinskogo instituta.
(ANESTHESIA) (HYPERTHYROIDISM)

KALUZHSKAYA, V.M.

I

Country : USSR
Category: Plant Physiology. Mineral Nutrition.

Abs Jour: RZhBiol., No 14, 1958, No 62989

Author : Kaluzhskaya, V.M.

Inst :
Title : Contribution to the Method of Ash Analysis of
the Tea Shrub.

Orig Pub: Pochvovedeniye, 1956, No 10, 91-97

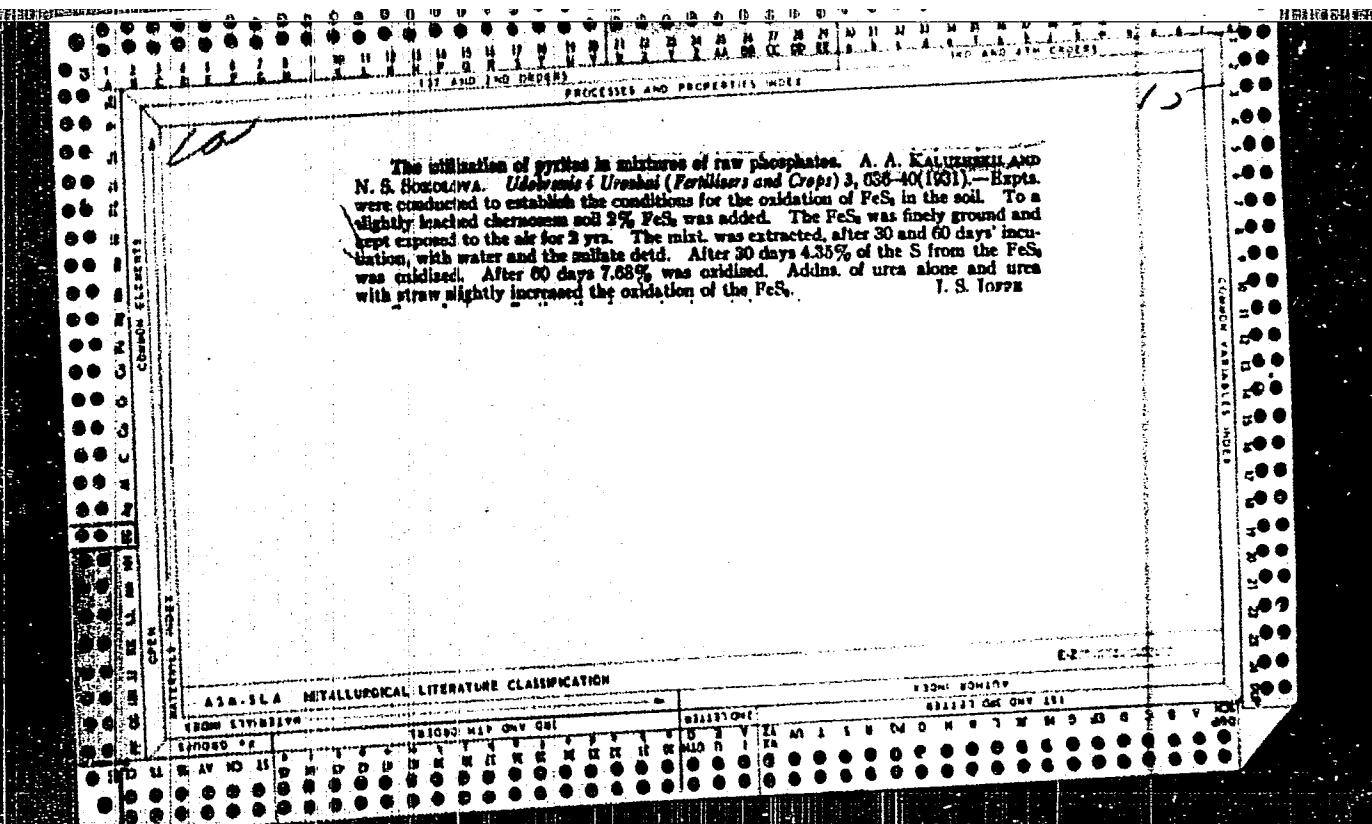
Abstract: Methods for determining Al in the ashes of tea
leaves in the presence of an important quantity
of phosphoric acid are given. Methods for deter-
mining Mn by difference after precipitation of
sesquioxides by ammonia with the addition of
 FeCl_3 or by the precipitation of the excessive

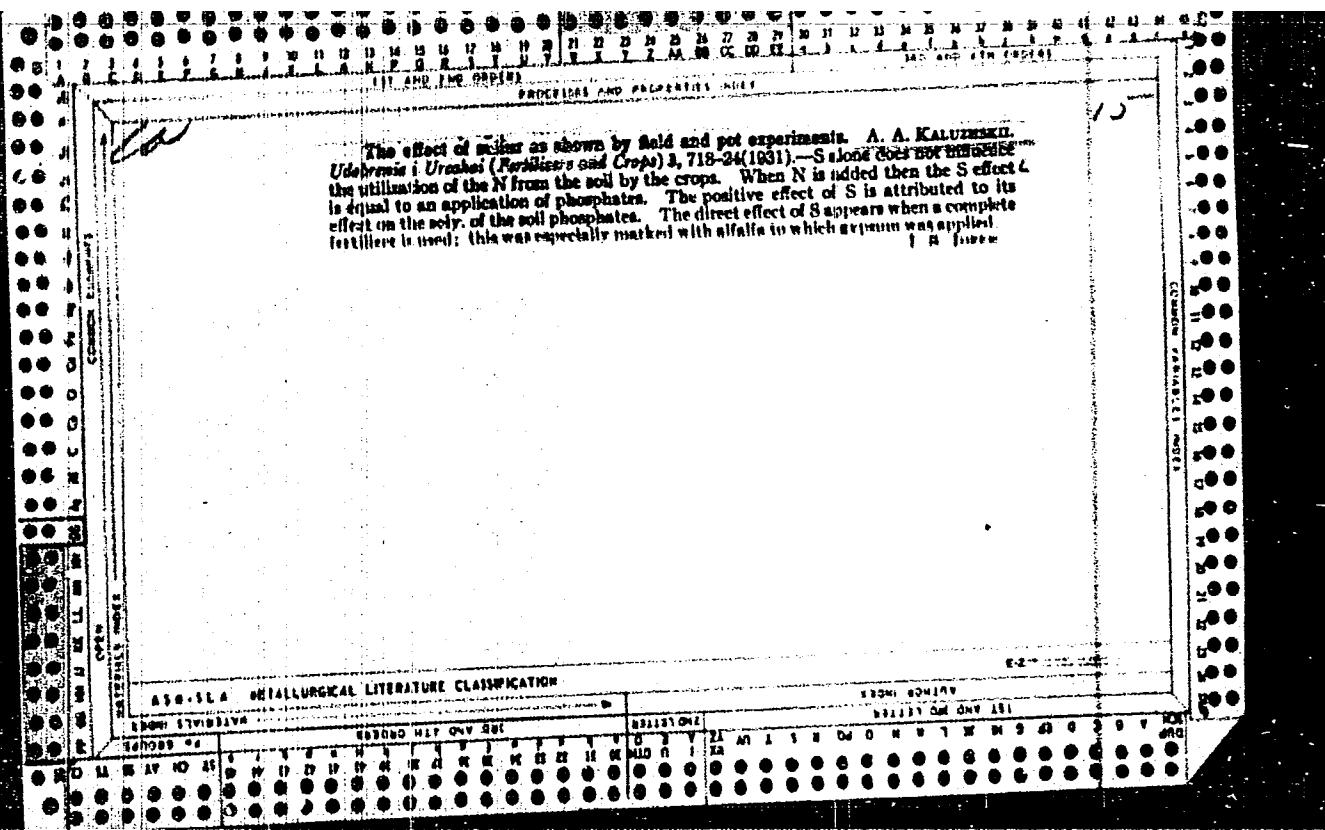
Card : 1/2

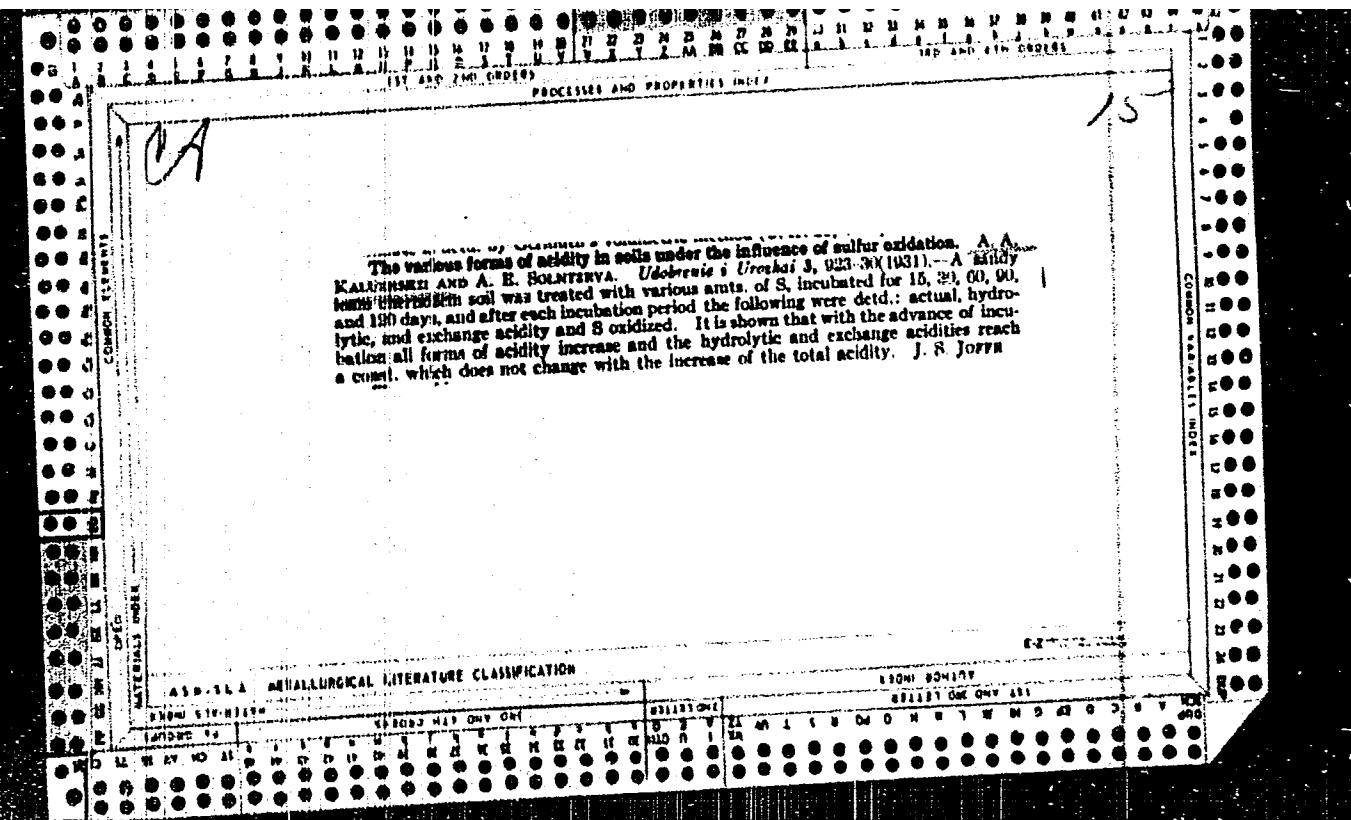
Soil Anal. in. Dokuchayev

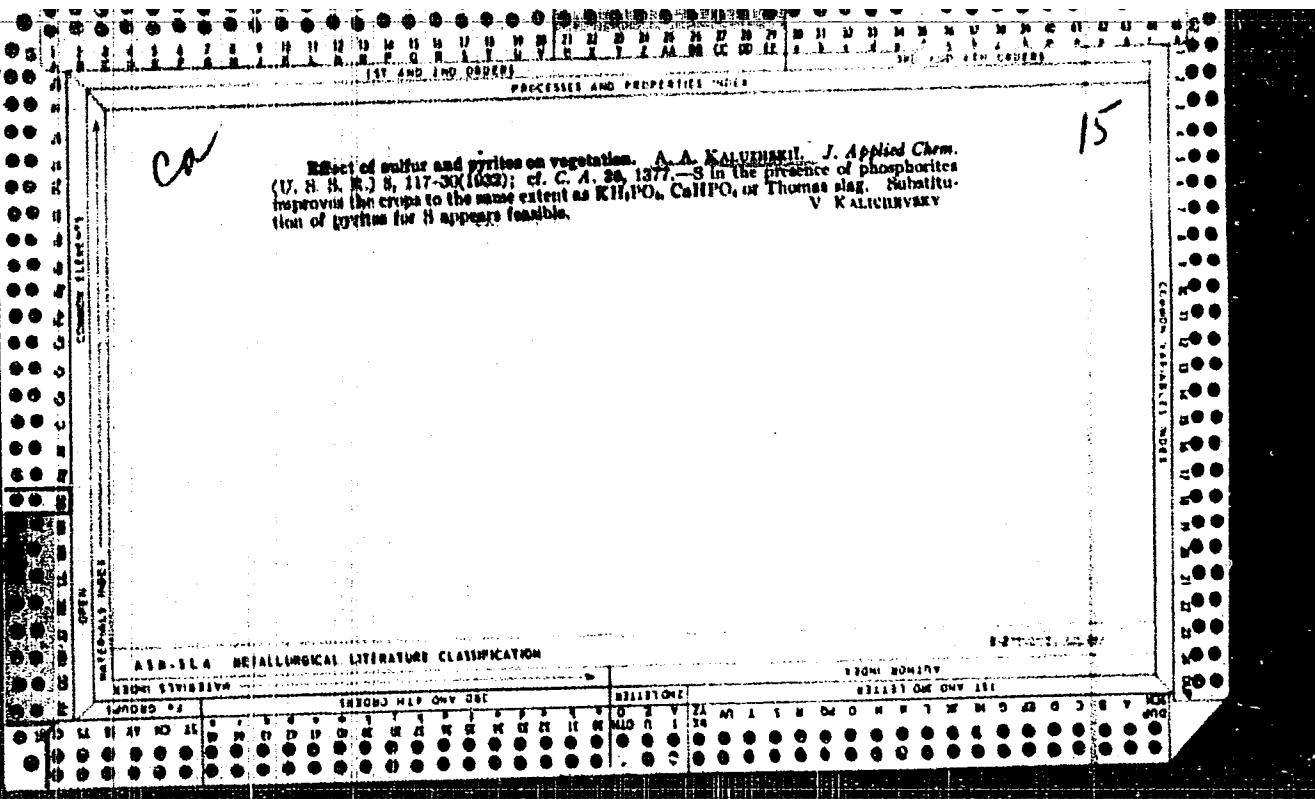
The utilization of pyrites in mixtures of raw phosphate. A. A. KALINOWSKI AND N. S. SOZONOWA. *Udobnye i Uroshchi (Fertilizers and Crops)* 3, 138-140 (1931).—Expts. were conducted to establish the conditions for the oxidation of FeS₂ in the soil. A slightly leached chernozem soil 3% FeS₂ was added. The FeS₂ was finely ground and kept exposed to the air for 2 yrs. The mixt. was extracted, after 30 and 60 days' incubation, with water and the sulfate determined. After 30 days 4.35% of the S from the FeS₂ was oxidized. After 60 days 7.68% was oxidized. Addns. of urca alone and urea with straw slightly increased the oxidation of the FeS₂. J. S. LOFFRE

J. S. LORPP









USSR/Chemistry - Halogeno-organic compounds

FD-2727

Card 1/1 Pub. 50 - 8/20

Authors : Sochilin, Ye. G., Cand Chem Sci; Kaluzhskiy, A. A.

Title : Production of chloroacetic acid by the oxidation of ethylene chlorohydrin

Periodical : Khim. prom. No 5, 285-287, Jul-Aug 1955

Abstract : In view of the fact that production of chloroacetic acid (which can be converted to fluoroacetic acid for rodenticides and is used in the synthesis of dyestuffs and drugs) is too expensive and complex when acetylene is used as a starting material, recommend that ethylene chlorohydrin derived from petroleum gas ethylene be oxidized to chloroacetic acid with nitric acid. State that they obtained an 83% yield of chloroacetic acid with the use of this procedure. Five references; 2 USSR, none prior to 1940.

Institution : Leningrad Order of the Labor Red Banner Technological Institute imeni Lensoveta

KALUXHSKIY, A.V.

50th anniversary of Grigorii Evgen'evich Steblin-Kaminskii. Khirurgiia no.
(MLRA 6:6)
4:90 Ap '53. (Steblin-Kaminskii, Grigorii Evgen'evich, 1876-)

AUTHOR: Kaluzhskiy, G. (L'vov)

SOV/107-59-1-27/51

TITLE: The Mounting of the Semiconductor Triodes
(Krepleniye poluprovodnikovykh triodov)

PERIODICAL: Radio, 1959, Nr 1, p 32 (USSR)

ABSTRACT: The author describes a procedure for mounting semiconductor triodes on a chassis. He recommends the drilling of 3 holes, and the insertion of plastic pipes through which the connecting wires are led. There is one diagram.

Card 1/1

KALUZHSKIY, G. (L'vov)

Winding of electric coils in pot-shaped cores. Radio no. 2:45 '63.
(MIRA 16:2)

(Electric coils)

L 6428.66 EWT(d)/EWT(m)/EWP(w)/EWA(g)/EWP(v)/T-2/EWP(t)/EWP(k)/EWP(z)/

ACC NR AP5020646

SOURCE CODE: UR/0147/85/000/003/0131/0135

EWP(b)/EWA(h)/ETC(m) IJP(c) MJW/JD/WW/EM

AUTHOR: Aryshensky, Yu. M.; Kaluzhskiy, I. I.

ORG: None

TITLE: Calculation of strains and stresses in sheet punching of transversely isotropic materials

SOURCE: IVUZ. Aviatsiomkaya tekhnika, no. 3, 1965, 131-135

TOPIC TAGS: aerospace structure, aerospace engineering, titanium alloy, sheet metal, tensile strength, stress analysis

ABSTRACT: Extensive use is being made in recent years of titanium alloys in the manufacture of the various components of aircraft and rockets. Sheet punching is one of the major processes in the manufacture of these components. In spite of the fact that a methodology has been developed for the calculation of sheet punching operations, it requires further improvement with respect to titanium alloys. The present authors attempt to derive equations for the case of transverse isotropy, employing the generalized Hooke's law. For the purpose of verifying the fundamental theoretical expressions, the authors performed tensile tests of specimens with a working length equal to the width. The tensile test results of VT1-2 alloy specimens, 1.2 mm thick, are presented as an example. It is noted that the deviation of the theoretical data from the experimental is within the measurement limits. The theory given is being used for the investigation of the process of stretching the VT1-2 and OT4-1 titanium alloys and makes it

UDC: 621.983.1

Cord 1/2

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EX-REF

L 6428-66

ACC NR: AP502054C

possible to give a satisfactory analysis of this process. Orig. art. has: 15 formulas and 1 table.

SUB CODE: AS, MM / SUBM DATE: 22Jun64 / ORIG REF: 003

Caro

RW
2/3

L 05016-67 SWI(10)/EWP(4)/FTI/EWP(k) IJP(c) JD/HW

ACC NR AR6031776 SOURCE CODE: UR/0276/66/000/006/V017/V017

AUTHOR: Smelyakov, Ye. P.; Saparovskiy, S. V.; Kaluzhskiy, I. I.

TITLE: A study of the process of pulsed deep drawing with fold formation

SOURCE: Ref. zh. Tekhnologiya mashinostroyeniya, Abs. 6V115

REF SOURCE: Tr. Kafedry proiz-vy letatel'n. apparatov. Kuybyshevsk. aviat. in-t, vyp. 20, ch. 2, 1965, 19-40

TOPIC TAGS: deep drawing, deformation, pulsed deep drawing

ABSTRACT: A method was developed for pulsed deep drawing with fold formation. With this method, the mechanical diagram of the deforming material is improved considerably by combining the drawing elements (without clamping) and by the intermittent application of pressure and the sizing of the flange after the latter loses its stability. It was found that the degree to which the flange is strengthened during one pulse may serve as a criteron for selection of the amount of the depth increase in drawing. The magnitude of the increment of the drawing depth for a single pulse can be calculated either from the derived formulas or by a graphic method of solving equations with a nomogram. Orig. art. has: 8 figures. Six references are given. [Translation of abstract]

Cord 1/17 SUB CODE: 13/

UDC: 621.983.3 vibration forming 18

ACC NR: AR7004883

SOURCE CODE: UR/0276/66/000/009/V021/V021

AUTHOR: Saparovskiy, S. V.; Smelyakov, Ye. P.; Kaluzhskiy, I. I.

TITLE: Study of the stepped cupping of parts using a sheet-stamping hammer in a special setup

SOURCE: Ref. zh. Tekhnologiya mashinostroyeniya, Abs. 9V144

REF SOURCE: Tr. Kafedry proiz-va letatel'n. apparatov. Kuybyshevsk. aviat. in-t, vyp. 20, ch. 2, 1965, 3-18

TOPIC TAGS: stepped extrusion, extrusion ratio, metal extrusion, buckling, bending, cupping

ABSTRACT: The process of cupping of each stage can be divided into bending and extrusion of the blank prior to the moment of buckling of the flange; extrusion with folds on the flange; and straightening of folds and moderate extrusion. The extrusion force is highest at the first stage; it is 30—40% lower than in conventional extrusion. Experimental data show that stepped cupping permits the use of an extrusion ratio 20—25% lower than that for conventional stamping. Intermittent loading also reduces

Card 1/2

UDC: 621.983.3.001.1

ACC NR: AR7004883

the friction of the blank passing through the drawing edge of the extrusion die. In developing the extrusion technology, a selection should be made of the correct depth of extrusion for each stroke and the value of the back pressure in the lower section of the hydraulic equipment of the setup. The original article has 9 figures and a bibliography of 6 reference items. S. Shirman. [Translation of abstract] [AM]

SUB CODE: 13, 11, 14/

Card 2/2

ACC NR: AR7004884

SOURCE CODE: UR/0276/66/000/009/V032/V032

AUTHOR: Aryshenskiy, Yu. M.; Kaluzhskiy, I. I.; Farmanova, V. N.

TITLE: Application of a coordinate grid for the study of wrapping titanium alloys with anisotropic properties

SOURCE: Ref. zh. Tekhnologiya mashinostroyeniya, Abs. 9V234

REF SOURCE: Tr. Kafedry proiz-va letatel'n. apparatov. Kuybyshevsk. aviats. in-t, vyp. 20, ch. 2, 1965, 61-68

TOPIC TAGS: coordinate system, jacketing, titanium alloy, anisotropic property, Hooke law

ABSTRACT: In order to determine the amount of deformation and stresses a grid, consisting of osculating circles 10 mm in diameter, was applied to one of the sides of the sheet specimen, using the photocontact method. The standard pattern of the grid was plotted on a transparent plastic sheet and measured with a microscope accurate to $1\text{ }\mu$. During the experiment, the osculatory circles turned into ellipses; the dimensions of the axes of the latter were used for determining the resultant

Card 1/2

UDC: 621.981.011

ACC NR: AR7004884

deformation with the aid of formulas. Since VT1-2 and OT4-1 alloys have transversal isotropy, an attempt was made to derive an equation showing the relation between the deformations and the stresses using a generalization of Hooke's law. The equations were experimentally tested by stretching specimens of which the effective length was equal to their width. Original article has a bibliography of 4 reference items. S. Shirman. [Translation of abstract] [AM]

SUB CODE: 11, 13/

Card 2/2

ACC NR: AR7004887

SOURCE CODE: UR/0276/66/000/009/V032/V032

AUTHOR: Aryshenskiy, Yu. M.; Kaluzhskiy, I. I.

TITLE: Calculating the mold and force required for stretch wrap

SOURCE: Ref. zh. Tekhnologiya mashinostroyeniya, Abs. 9V237

REF SOURCE: Tr. Kafedry proiz-va letatel'n. apparatov. Kuybyshevsk. aviat. in-t, vyp. 20, ch. 2, 1965, 69-74

TOPIC TAGS: molding, mold, stretch wrap, metal stress, stretch forming

ABSTRACT: In determining the shape of a mold for stretch wrap with equal stresses and deformations over the entire length, the authors analyze a chart of linear state of stress which makes it possible to determine the width of the blank. The formulas derived for calculating the required force make allowances for the effect of frictional force and the changes in the cross-sectional area, and contain the actual stress instead of its assumed value, σ_0 , in approximation formulas. The experimental verification of the formulas derived for VT1-2 and OT4-1 alloys showed agreement between calculated data and the readings of the pressure gage.

Card 1/2

UDC: 621.981.011

ACC NR: AR7004887

The original article has 4 figures and a bibliography of 1 reference item,
S. Shirman. [Translation of abstract]

[AM]

SUB CODE: 11, 13/

Card 2/2

MONASTYRSKIY, M.D., inzh.. Prinimeli uchastiye: FRANK, G.A., inzh.; FOSS, V.A., inzh.; KALUZHSKIY, M.Ye., inzh.; NAYDENOV, A.P., inzh.; POLUBNEVA, V.I., inzh., red.

[Large-panel house built of foamed cinder concrete hardened without using autoclaves; practices of the "Bazstroi" Sverdlovsk sovnakhoz] Krupno-panel'nyi dom iz neavtoklavnogo zolopenobetona; opyt tresta "Bazstroi" Sverdlovskogo sovnarkhoza. Moskva, 1959.
15 p.

(MIRA 13:6)

1. Akademiya stroitel'stva i arkhitektury SSSR. Institut organizatsii, mekhanizatsii i tekhnicheskoy pomoshchi stroitel'stva. Byuro tekhnicheskoy informatsii. 2. Upravlyayushchiy trestom "Bazstroy" Sverdlovskogo sovnarkhoza (for Monastyrskiy). 3. Nachal'nik tsentral'noy laboratorii tresta "Bazstroy" (for Frank). 4. Nachal'nik otdela proizvodstvennykh predpriyatiy tresta "Bazstroy" (for Foss). 5. Nachal'nik proizvodstvennogo otdela tresta "Bazstroy" (for Kaluzhskiy). 6. Glavnyy tekhnolog tresta "Bazstroy" (for Naydenov).

(Sverdlovsk Province--Apartment houses) (Lightweight concrete)

KRIVORUCHENKO, Vladimir Vladimirovich[deceased]; KOROBOV, Mikhail
Aleksandrovich; BELYAYEV, A.I., retsenzent; KALUZHSKIY,
N.A., inzh., retsenzent; SHENKOV, V.V., inzh., retsenzent;
OL'KHOV, I.I., inzh., red.; EL'KIND, L.M., red. izd-va;
ISLENT'YEVA, P.G., tekhn. red.

[Heat and power balance of aluminum and magnesium electro-
lyzers] Teplovye i energeticheskie balansy aliuminievkh i
magnievykh elektrolizerov. Moskva, Metallurgizdat, 1963.
(MIRA 16:4)
319 p.

1. Chlen-korrespondent Akademii nauk SSSR (for Belyayev).
(Electrometallurgy) (Heat—Transmission)

VASIL'YEV, Ye.A., red.; YERMAKOV, V.I., red.; KALUZHSKIY, N.A.,
red.; KOMSHILOV, N.F., red.; MATYUSHKINA, A.P., red.;
KIKINOV, G.V., red.; RAYEVSKAYA, V.S., red.;
SHCHEMELEVA, A.V., red.

[Materials of the Conference on the Overall Use of Wood]
Materialy Konferentsii po kompleksnomu ispol'zovaniyu
drevesiny. Petrozavodsk, Karelskoe knizhnoe izd-vo,
1964. 306 p. (MIRA 18:1)

1. Konferentsiya po kompleksnomu ispol'zovaniyu drevesiny,
Petrozavodsk, 1961.

KALUZHISKIJ, Nikoley Andreyevich; KRIVCHENOK, I.Ye., red.

[Chemistry and the economy of Karelia] Khimiia i ekonomika Karelii. Petrozavodsk, Karel'skoe knizhnoe izd-vo 1965. 103 p. (MIRA 19:1)

USSR / Forestry. Forest Crops

K-4

Abs Jour: Ref Zhur-Biol., No 13, 1958, 58419

Author : Kaluzhskiy, N. I.

Inst : L'vov Forest Technical Institute

Title : New Methods of Forest Planting under Mountainous
Conditions Prevailing in Western Oblasts of the
Ukrainian SSR

Orig Pub: Nauchn. tr. L'vovsk. lesntekhn. in-t, 1957, 3,
166-172

Abstract: It is recommended that forests be planted in
the spring on a fresh clearing from dense plan-
tings without preliminary soil preparation and
without subsequent weeding and mallowing. The
absence of malignant grassy growth in the Carpa-

Card 1/2

50

Kaluzhskiy, N.I.

USSR / Forestry. Forest Plants.

K-5

Abs Jour: Ref Zhur - Biologiya, No. 1, 1958, 1360

Author : Kaluzhskiy, N.I.

Title : Tree Planting Without Soil Preparation

Orig Pub: Lesn. kh-vo, 1957, No. 5, 66-67

Abstract: Described are the successful results attained in planting forest crops (spruce with sharp-leaf maple, larch), without preliminary preparation of the soil, on clearings under groves of fully-grown trees of not less than 0.7 thickness in the Carpathians. The agricultural engineering aspects are discussed, as well as the methods of caring for the plants.

Card 1/1

27930

S/133/61/000/009/004/011
A054/A127

11300

AUTHORS: Trishevskiy, I. S., Candidate of Technical Sciences, Soroko, L. N.,
Klepanda, V. V., Naydenov, A. A., Skokov, F. I., Gamershteyn, V. A.,
Kaluzhskiy, V. B., Engineers

TITLE: Grooving of rods for the shaping of corrugated sheets

PERIODICAL: Stal', no. 9, 1961, 817 - 824

TEXT: According to the authors the best way of producing corrugated sheets is rolling them from sheet metal on shaping mills instead of producing them by stamping. The groove designs of the rolls for this process were made to suit the pilot industrial-scale shaping mill of the Ukrainskiy institut metallov (Ukrainian Institute of Metals). The tests were carried out with 08Kh (08kp) steel on 15 stands (scale 1:1). To ensure strip stability and a good quality corrugation, the design provides for the successive profiling of sectors, starting from the central rib towards strip edges. The ribs are shaped by the work rolls; before the first and second stand vertical auxiliary rolls are used as guides. One of the features of the new grooving system is the application of varying radii with a constant distance between the bending arc centers. The shaping radii are determined in sum

X
Card 1/3

27930 S/133/61/000/009/004/011

Grooving of rolls for the shaping of corrugated sheets A054/A127

a way that the length of the corrugations of the upper and lower roundings remains constant, whereas the dimensions of the transient shapes of the profile are determined in such a way that the perimeter of the ribs being formed remains constant in all passes. To support the peripheral sectors of the strip being shaped and to enable the metal to be displaced freely to the bending spot backing disks are used whose distance from the roll axis depends on the shape corrugation of the corresponding profile sections. This made it possible not to overlap the whole profile by the rolls to shorten the roll barrel. The rolls are assembled from horizontal parts on both ends. They are easily mounted and the gaps between the rolls can be adjusted accurately. When rolling corrugated sheets with this type of grooved rolls the height of the section deviated from the standard value (32 mm) by 0.6 - 1.0 mm, the corrugations varied between 1.7 - 2.5 mm in length and between 2.25 and 2.8 mm in width; the angle of inclination of the lateral external edges of the outer ribs varied between 69 - 70° instead of the required 72°30'. Moreover the sheet thickness was not uniform over its entire length and width: the sheet thickness at the bending spots is smaller at the front edge of the sheet than at the rear end. The relative thinning at the front end of the strip is 4.6% greater than at the rear. Based on the test results, the first batch of corrugated sheets was rolled on an 18 stand mill - (-4) x (400-1,500) -

Card 2/3

27930

S/133/61/000/009/004/011

Grooving of rolls for the shaping of corrugated sheets A054/A127

of the "Zaporozhstal'" Plant under the following conditions: I - feeding stand with cylindrical rolls; II-VII - stands; shaping the central rib with bending angles of 12° - 28° - 45° - 62° - $72^{\circ}30'$ - $72^{\circ}30'$; VIII-XI - stands; shaping the internal lateral edges of the small outer ribs with bending angles of 18° - 40° - 60° - $72^{\circ}30'$; XIII-XV - stands; shaping the lateral edges of the small outer ribs with bending angles of 18° - 40° - 60° - 73° ; XVI-XVII - stands; shaping the longitudinal nick with bending angles of 35° - 71° ; XVIII - stand; doubling stand XVII. The authors conclude by stating that the grooving of shaping mill rolls for the production of corrugated sheets, based on a constant distance between the bending arc centers and on a variable magnitude of radii makes it possible to obtain shapes without cracks in the bending spots and without surface defects. There are 4 figures.

ASSOCIATION: Ukrainskiy nauchno-issledovatel'skiy institut metallov (Ukrainian Scientific Research Institute of Metals) and "Zaporozhstal'" Plant

X
Card 3/3

KOLMENKOV, V. N., M. I. KARASIK
Metallurg. 10 no. 3:26-27 Mr '65.

Mastering the production of formed sections in closed passes.
(MIRA 18: 5)

1. Zavod "Laprochstal".

TRISHEVSKIY, I.S., kand.tekhn.nauk; SOROKO, L.N., inzh.; KLEPANDA,
V.V., inzh.; NAYDENOV, A.A., inzh.; SKOKOV, F.I.;
GAMERSHTEYN, V.A.; KALUZHESKIY, V.B.

Roll grooving for the shaping of ribbed plates. Stal' 21 no.9:
817-824 S '61.
(MIRA 14:9)

1. Ukrainskiy nauchno-issledovatel'skiy institut metallov i
zavod "Zaporozhstal'".
(Rolls (Iron mills))

NAYDENOV, A.A., inzh.; KALUZHSKIY, V.B., inzh.

Roll grooving for multiple stand, continuous piece production shape bending mills. Stal' 23 no.1:68-72 Ja '63. (MIRA 16:2)

1. Zavod "Zaporozhstal!".
(Rolls (Iron mills))

NAYDENOV, A.A., GAMERSHTEYN, V.A., KALUZHSKIY, V.B.

Modernization of the roll stand of a bar-bending machine.
Met. i gornorud. prom. no. 3:66-67 My-Je '64.

(MIRA 17:10)

KALUZHSKIY, Ya.A., prof.

Principles of pavement construction. Avt.dor. 28
no.10:6-7 0 '65.

(MIRA 18:11)

KALUZHISKIY, Ya.A., Doc Tech Sci—(disc) "Theory of smoothing the ground layers of the roadbed and road surfacings." Mos, 1958. 20 pp with drawings (Min of Higher Education USSR. Mos Motor Vehicle & Road Inst), 150 copies (KL,22-58,106)

-67-

KALUZHSKIY, Ya.A.

MOGILEVSKIY, Dmitriy Aleksandrovich, dotsent; BABKOV, Valeriy Fedorovich, prof., doktor tekhn.nauk; SMIRNOV, Andrey Sergeyevich, kand.tekhn. nauk; ABRAMOV, Leonid Tikhonovich, kand.tekhn.nauk; ZAYTSEV, Filipp Yakovlevich, kand.tekhn.nauk; ZAMAKHAYEV, Mitrofan Semenovich, kand.tekhn.nauk; NIKITIN, Sergey Mikhaylovich, inzh.; BIRULYA, A.K., prof., retsenzent; DUDKIN, P.A., kand.tekhn.nauk, retsenzent; AVDEYEV, V.N., retsenzent; KARTASHEV, V.A., retsenzent; PAL'CHEV, A.G., retsenzent; POPOV, A.N., retsenzent; PTITSIN, I.G., retsenzent; ROMA-NENKO, I.A., prof., retsenzent; BARATS, L.A., prepodavatel', retsenzent; BASKEVICH, N.I., prepodavatel', retsenzent; BEL'SKIY, A.Ye., prepodavatel', retsenzent; KALUZHSKIY, Ya.A., prepodavatel', retsenzent; CHVANOV, V.G., red.; MAL'KOVA, N.V., tekhn.red.

[Locating and designing airfields] Izyskania i proektirovaniye aerodromov. Pod red. V.F.Babkova. Moskva, Nauchno-tekhn.izd-vo M-va avtomobil'nogo transporta i shosseinykh dorog RSFSR, 1959. 566 p.

(MIRA 13:3)

1. Khar'kovskiy avtomobil'no-dorozhnyy institut (for Romanenko, Barats, Baskevich, Bel'skiy, Kaluzhskiy).
(Airports--Planning)

KALUZHSKIY, Ya.A., doktor tekhn.nauk

Calculation systems of the interaction between the wheel and the deformed layer. Torf. prom. 38 no.8:7-9 '61. (MIRA 14:12)

1. Khar'kovskiy avtomobil'no-dorozhnyy institut.
(Peat machinery)

SLAVUTSKIY, Aleksandr Kel'manovich; BABKOV, V.F., doktor tekhn. nauk, prof., retsenzent; POLIVANOV, N.I., doktor tekhn.nauk, prof., retsenzent; KALUZHISKIY, Ya.A., doktor tekhn. nauk, prof., retsenzent; KRUTETSKIY, Ye.V., dots., rad.; OVSYANNIKOVA, Z.G., red.iad-va; MURASHOVA, V.A., tekhn. red.

[Rural roads] Sel'skokhoziaistvennye dorogi. Moskva, Vys-shaia shkola, 1963. 466 p. (MIRA 16:6)
(Road construction)

KLUZHSKIY, Ya.A., prof.; FILIPOV, V.V., inzh.

Theory of mass service in the investigation of traffic current.
Avt.dor. 27 no.12:4-5 D '64. (MIRA 18:2)

KALUZHNIY, Ye. A.

21776 OYNS, G. N.; MIKSIMOV, Yu. M. i KALUZHNIY, Ye. A.

Mekhanizam bygoraniya ugleroda v martenovskoy pechi.
Sbornik (Mosk. in-t stali im. Stalina), 28, 1949, s. 46-61.

SO: Letopis' Zhurnal'nykh Statey, No. 29, Moskva, 1949

18(5)

SOV/148-59-1-9/19

AUTHORS: Kapustin, Ye.A., Glinkov, G.M., Candidates of Technical Sciences and Kaluzhskiy, Ye.A., Engineer

TITLE: Raising the Productivity and Economy of Open Hearth Furnace by Improving the Thermal Process (Povysheniye proizvoditel'nosti i ekonomichnosti martenovskoy pechi za schet usovershenstvovaniya teplovogo rezhima)

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy - Chernaya metallurgiya, 1959, Nr 1, pp 83-89 (USSR)

ABSTRACT: Experiments were carried out for the purpose of developing an improved heat process in open hearth furnaces, whereby optimum correlation of blast air and mazut consumption during the smelt were determined. The following personalities participated in the work: A.A. Goshchanskiy, V.I. Dorokhov, V.P. Yevtyukhov, D.P. Zabrodkin, V.F. Kalinkin, A.Ye. Prikhozhenko, V.D. Rudman, A.A. Rykhlikova, N.G. Stepin, I.S. Chernyshev. It was stated that the determination of the blast expense depended on the components of air balance such as: air expense for fuel burning, oxidation of the pool, burning-out of CO, as well as loss of air caused by leakages and air intake from the external space.

Card 1/2

SOV/148-59-1-9/19

Raising the Productivity and Economy of Open Hearth Furnace by Improving the Thermal Process

Air intake and loss depended on the pressure in the smelting space. For the case that optimum pressure under the smelting space coupola could not be maintained, the blast expense must be adjusted accordingly. The developed thermal process regulates the thermal load depending on the charge material (loose or scrap); the quality of the scrap; duration of initial heating and idle time; and the smelting intensity. The new method reduced the smelting time by 6.4% and the specific fuel expense by 8.3%. The author presents graphs where the mazut expense is plotted versus the smelting time; the quantity of beads and the Fe-content in the slag; etc.

There are 8 graphs and 6 Soviet references.

ASSOCIATION: Zhdanovskiy metallurgicheskiy institut (Zhdanov Metallurgical Institute)

SUBMITTED: October 1, 1958

Card 2/2

KULIKOV, V.O.; BORNATSKIY, I.I.; ZARUBIN, N.G.; DOROFEEV, G.A.;
KALUZHISKIY, Ye.A.; KAZAKOV, A.A.; KOVAL', R.F.; KORNEVA, N.K.;
TRET'YAKOV, Ye.V.; TRUNOV, Ye.A.; Prinimali uchastiye: ANDREYEV, V.L.;
GORDIENKO, V.V.; GRINEVICH, I.P.; GUBAR', V.F.; DOLINENKO, V.I.;
ZHERNOVSKIY, V.S.; ZHIGALOVA, Z.I.; KOMOV, N.G.; KURAPIN, B.S.;
OLESHKEVICH, T.I.; PRIKHOZHENKO, Ye.

Mastering the operations of 650- and 900-ton (mega - gram) capacity
open-hearth furnaces at the Il'ich metallurgical plant. Stal' 25
no.8:805-807 S '65. (MIRA 18:9)

1. DONNIICHERMET i Zhdanovskiy metallurgicheskiy zavod imeni Il'icha.

KALUZHSKIY, Yu. Ya.

Kaluzhskiy, Yu. Ya., "Indications and basic conditions for surgical treatment of the aftereffects of bullet wounds of the central and peripheral nervous system," Trudy Krymsk, med. in-ta im. Staline, Vol. XII, 1948, p. 323-27

SO: U-3850, 16 June 53, (Letopis 'Zurnal 'nykh Statey, No. 5, 1949)

KALUZKA, Henryk, mgr inz., adiunkt

Tool feed elasticity in the work of a lathe. Przegl mech 23
no. 4:106-109 25 F '64.

1. Katedra Czesci Maszyn, Politechnika, Lodz.

KALUZKA, Henryk, mgr inz.

Vibration during the operation of tool machines and conditions for
research on them. Przegl. mech 21 no.22:696-699 25 N '62.

1. Politechnika, Lodz.

KALUZA, Henryk, mgr inż., adiunkt

Static receptivity of the medicine tool-object-tool
system and its utilization for the correction of pitch
errors in the working of lead screws. Przegl mech 22
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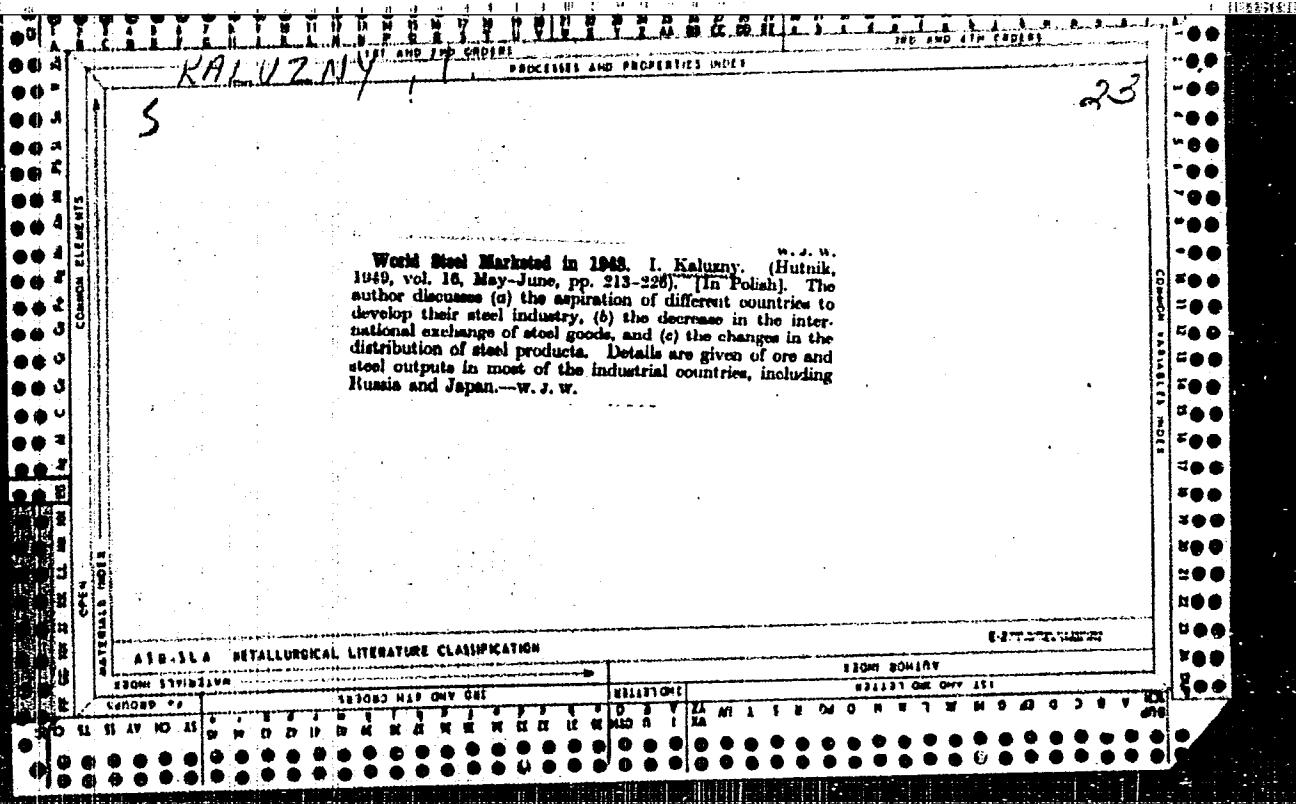
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- 54 -

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